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Application No.: 10/058,513

Page 2

In the Specification:

Please replace the paragraph beginning at page 5, line 37, with the following:

1

Figure 1 shows an embodiment of a nucleic acid (mRNA) which includes a sequence which encodes a prostate cancer protein provided herein, PBH1 (SEQ ID NO:1). The start and stop codons are underlined, defining an open reading frame.

Please replace the paragraph beginning at page 6, line 1, with the following:

M

♣ Figure 2 shows an embodiment of an amino acid sequence of PBH1 (SEQ ID NO:2). Potential transmembrane domains are underlined. ♣

Please replace the paragraph beginning at page 6, line 10, with the following:

W)

Figures 4A-4C show sequence alignments between PBH1 amino acid sequences (SEQ ID NOS:3, 18, 22 and 29) and TRPC7 (SEQ ID NOS:4, 19, 23 and 30), using BLASTP alignment program. The alignment of Exons 1-15 is shown in Figure 4A (SEQ ID NOS:3-17); the alignment of Exon 16 is shown in Figure 4B (SEQ ID NOS:18-21); and the alignment of Exons 17-28 is shown in 4C (SEQ ID NOS:22-31).-▶

Please replace the paragraph beginning at page 6, line 15, with the following:

XA

Figures 5A-5C show an embodiment of a nucleic acid (mRNA) which includes a sequence which encodes PBH1. Figure 5A corresponds to nucleic acid sequence encoding exons 1-15 of PBH1 (SEQ ID NO:32); Figure 5B corresponds to nucleic acid sequence encoding exon 16 of PBH1 (SEQ ID NO:33); and Figure 5C corresponds to nucleic acid sequence encoding exons 17-28 of PBH1 (SEQ ID NO:34).-

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Please replace the paragraph beginning at page 6, line 20, with the following:

by)

Figures 6A-6C show an embodiment of an amino acid sequence of PBH1. Figure 6A shows the amino acid sequence of exons 1-15 (SEQ ID NO35); Figure 6B shows the amino acid sequence of exon 16 (SEQ ID NO:36) and includes a potential transmembrane domain, designated by underlining; Figure 6C shows the amino acid sequence of exons 17-28 (SEQ ID NO:37) and includes 6 potential transmembrane domains, designated by underlining.

Please replace the paragraph beginning at page 13, line 35, with the following:

W

The extracellular domains of transmembrane proteins are diverse; however, conserved motifs are found repeatedly among various extracellular domains. Conserved structure and/or functions have been ascribed to different extracellular motifs. For example, cytokine receptors are characterized by a cluster of cysteines and a WSXWS (SEQ ID NO:38) (W= tryptophan, S= serine, X=any amino acid) motif. Immunoglobulin-like domains are highly conserved. Mucin-like domains may be involved in cell adhesion and leucine-rich repeats participate in protein-protein interactions.

Please replace the paragraph beginning at page 58, line 8, with the following:

X

-¥Total RNA

5-10 ug

T7-(dT)₂₄ primer (SEQ ID NO:39) (100 pmol/uL)

1 uL (2 ug/uL)

Add water to a total volume of

11 uL

Heat to 70°C for 10 minutes. Place on ice for 2 minutes. f-

Please replace the paragraph beginning at page 68, line 26, with the following:



₹-Based on the observation that the protein sequence of PBH1 contains 7 transmembrane domains, it is likely that the amino terminal region of at least 713 amino acids and three protein loops are extracellular (see Figure 2). The extracellular regions may contain suitable antigenic